

hT1R1 1 -MLCTARIVGJOLILISCOMAFACHSTES-----SPDTHPGVATAGGPTI-HSCCLOWRER-----PEVTLDRSCSENEHGVHFOAVRLQVEEENNSTALHPNTHFGVQIMVCSO-SANVIATIRVI 119
 rT1R1 1 MLTWAHILISOL--VYOMAFESCORTES-----SPESLPGELIAGLSU-HGDCLOWRER-----PHTSODRDPDSENGCHGVHFOAVRHEVENENSSALHPNTHFGVQIMVCSO-SANVIATIRVI 118
 hT1R2 1 -MPRAKTCISUF--ELMVLADP--AE-----NSDHYLPGDHEHGGLSU-HANMKGVHINFLQVPOK-EYEVKVGINLQAMRFAVEEENNDSSHJPGVILGVEIVDVOYT-SNNVQRMVMEH 115
 rT1R2 1 -MGPARTICILUSI--LJHVLPRPKIVE-----NSDHTAGDHLGGTIL-HANVKSISLSYLQVPOK-ETMKVIGVUQAMRFAVEEENNCSSHJPGVILGVEIVDVOYT-SNNHPCGIMEH 118
 hT1R3 1 ---MLGPVIGLSIMAILHPGTGALOLS---OOLRMKGDMLGGPPIGEAEFGESSTRPSSVOT---RESSNELLWALAKVNAVEHENNSDHPGLRGIDHTCSEPPVAMKPSIMEH 117
 rT1R3 1 ---MPGLAILGSLAFLHGMGSSLOLS---OCEKAQCPYILGGPPIGTTEATLNGTOPNGILOT---RESH-GLFLAMAKVNAVEEENNGSALHPGLRGIDHTCSEPPVAMKPSIMEH 117
 mG1uR1 1 MYRLLIFFPPIHEMSIIPRMPDKVILACASSQSVARMDCQVILGILFESVHOPPEKVE-----RKQG--EIREQVGLQORVEAHHTLDKINADPILHPNTHFGVQIMVCSO-SANVIATIRVI 123

 hT1R1 120 SLPG-----QHHEIIOQLLHUSE-----TMAVIGPDSINRAHTTANLISPEIMISVANSSETISVERQVPSFLRTIANKVOVETMLLHOKFGIMSLVSSDDIYCOLGMOAENQATGO-G 236
 rT1R1 119 ALQG-----PRHETOKOLRNHSS-----KVAHEIGPDNDIHAHTIADLIGPELMPJVSDEASSVLSAKRMESELRIVPSDREOVEMVLOLSEFGVWISLISYGDYCOLGMOAENQATGO-G 235
 hT1R2 116 AHE-----DMILRIGEDYSMTLS-----RWAVIGPDNSSESVMTVAEPLSLEITPOITVSHISDELRDKVREHALLRTPSDHHEAMVOIMLHFRANKHITVSSDYGRDNCQICERVARR-D 231
 rT1R2 119 AOD-----DILLPLKDYSONP-----HMAVIGPDNSSESVMTVAEPLSLEITPOITVSHISDELRDKVREHALLRTPSDHHEAMVOIMLHFRANKHITVSSDYGRDNCQICERVARR-D 231
 hT1R3 118 AKAG-----SRDIAAYCNVTOPO-----RVILAVIGHSSSEIAVWIGGTFSEFELMPOVSQASMEILSARETEPSFRIVPSDRVOLTAAAEILOEPGNVAVAILGSDDEYGGGLSIF-SALFAAR-G 234
 rT1R3 118 AKVG-----SOSIAAYCNVTOPO-----RVILAVIGHSSSEIALIGGTFSEFELMPOVSQASMEILSARETEPSFRIVPSDRVOLTAAAEILOEPGNVAVAILGSDDEYGGGLSIF-SALFAAR-G 234
 mG1uR1 124 RDSLSIRDEHFCINRCLPDGQTLFPGRTKPIAGHIGPSSSVNICQVNLQIOLDEQIAVSHISDELSDKTLVYETIRVPSDTIQRARMLDIVKRYNITVSAVHTEGNEFESQMDHAKELADQO-G 252

 hT1R1 237 ICIATVMPFSAOVG-----DER--MCLMHTIAG-----ACATVVAFFSSQOLARMTFESMILNITGNVANA-SEANALSRHTGVEGTORIGVIGVATQRAVPELKAFFAYAR--ADKKARPCHK 354
 rT1R1 236 IOWANMDFSRVG-----DER--MOSMOHIAQ-----ARTJVVAVF-SNRHILARMEPSMILNITGNVANA-SEANALSRHTGVEGTORIGVIGVATQRAVPELKAFFAYAR--ADKKARPCHK 353
 hT1R2 232 ICIATVMPFSAOVG-----DER--MOSMOHIAQ-----ARTJVVAVF-SNRHILARMEPSMILNITGNVANA-SEANALSRHTGVEGTORIGVIGVATQRAVPELKAFFAYAR--ADKKARPCHK 353
 rT1R2 236 ICIATVMPFSAOVG-----DER--MOSMOHIAQ-----ARTJVVAVF-SNRHILARMEPSMILNITGNVANA-SEANALSRHTGVEGTORIGVIGVATQRAVPELKAFFAYAR--ADKKARPCHK 353
 hT1R3 235 ICIATVMPFSAOVG-----DER--MOSMOHIAQ-----ARTJVVAVF-SNRHILARMEPSMILNITGNVANA-SEANALSRHTGVEGTORIGVIGVATQRAVPELKAFFAYAR--ADKKARPCHK 353
 rT1R3 235 ICIATVMPFSAOVG-----DER--MOSMOHIAQ-----ARTJVVAVF-SNRHILARMEPSMILNITGNVANA-SEANALSRHTGVEGTORIGVIGVATQRAVPELKAFFAYAR--ADKKARPCHK 353
 mG1uR1 253 ICIATVMPFSAOVG-----DER--MOSMOHIAQ-----ARTJVVAVF-SNRHILARMEPSMILNITGNVANA-SEANALSRHTGVEGTORIGVIGVATQRAVPELKAFFAYAR--ADKKARPCHK 353

 hT1R1 355 G-----SWOSSVLOPREGOAFMAHTMPKIKAFS-----VSSNINATRAVAVAHGILHOLIGOR-----SGAOSR-GRVAPWOLHPOHVKHFL--LHKDTVAFNDNRDPLSSNITAMDMGPKW-TITVL 466
 rT1R1 354 G-----SWOSTVLOPREGOAFMAHTMPKIKAFS-----VSSNINATRAVAVAHGILHOLIGOR-----SGAOSR-GRVAPWOLHPOHVKHFL--LHKDTVAFNDNRDPLSSNITAMDMGPKW-TITVL 466
 hT1R2 356 S-----YTO--NOEDVCLNATISFNTIILSG-----ERWMSVSAVAVAHALHSLIGOD-----KSHOTK-RWAPWOLHPOHVKHFL--LHKDTVAFNDNRDPLSSNITAMDMGPKW-TITVL 465
 rT1R2 360 R-----TTQ--NODDCLNATISFNTIILSG-----ERWMSVSAVAVAHALHSLIGOD-----KSHOTK-RWAPWOLHPOHVKHFL--LHKDTVAFNDNRDPLSSNITAMDMGPKW-TITVL 465
 hT1R3 356 EREGLEDVVOPOQDCIILQNVSAGIN-----HHOTFSAVAVAVAHALHSLIGOD-----KSHOTK-RWAPWOLHPOHVKHFL--LHKDTVAFNDNRDPLSSNITAMDMGPKW-TITVL 465
 rT1R3 355 -AELDLERVMGPRSCODYIMICNLSSGLMONLSAGOLHHEIFATVAVAVAHALHSLIGOD-----KSHOTK-RWAPWOLHPOHVKHFL--LHKDTVAFNDNRDPLSSNITAMDMGPKW-TITVL 465
 mG1uR1 374 HR-----FOORLPCHLLIENPNEKKVCTGNESEENYVQ--DSNGEMVILNITVMAHGLQNMHHALCPGHVGLQDMKPEIDGRKLEIDFLIKSSVGVSGEVEFEDEKGPGRIDIMNIOYTEANRYDVVHM 497

TO FIG. 1B

FIG. 1A



FROM FIG. 1A

467	htIR1	CSSTWSPVQININETKIOWHGKNOVRKSCSSDCEJGHOR	WJSEFHCCFEFCVPCQKGFETIA-KSDLYRCOPCKKEEAEAPGSSQTCFPRPWJFIALRHTSMWIEANTITIEHLLSTAGIFAMHLDI	599
468	htIR1	CSASISPVHIDINKTKIOWHCAKNOVPYSQITDCECHHR	WVGSJHCCFEFCVPCQKGFETIA-MSELHICOPCKKEEAPKESCTCFPRPWJFIALRHTSMWIEANTITIEHLLSTAGIFAMHLDI	593
469	htIR2	ASYYPLORQIKN-IODLSWHEINNTIPVSMCKKRCOSGOKK	KPVGLHVCCEHOIDOLPCEJFIAHTEDETECOAPNNEWSTOSEJSCIKROLVELEWHEAPTHVAALAAJGELSTHAIIMIEWRHEFOI	593
470	rtIR2	ASYSPTSKRIFY-INNVSMYTPNNIVPISMCKSCOPGOKK	KSWGLHVCCEHOIDOLPCEJFIAHTEDETECOAPNNEWSTOSEJSCIKROLVELEWHEAPTHVAALAAJGELSTHAIIMIEWRHEFOI	597
471	htIR3	GRFN-GSLRTER--IKTRMHTSDNOKPVRSCROCEGOKR	RMFGHSCQVDCVDFGSMRO-NPDDTAOTICODENSPRSTRCPRRSRELANCPAMILLIILSLSLATCICIMANIGIFVHRS	596
472	rtIR3	GTFN-GTIOJH--SNWMPG--NOVPISOCKROCKDEOKR	RMFGHSCQVDCVDFGSMRK-HPDDTIOICECKDQSEKSEHICOPRRPCEJFIAHTEDETECOAPNNEWSTOSEJSCIKROLVELEWHEAPTHVAALAAJGELSTHAIIMIEWRHEFOI	601
473	mGlur1	GTWH--EGVIMDDVKIOWNK--SGMVRKVCSEPELKGOKIRKGEVSCQWIOQACKENEHVO--DEETORACDILGMPNAELDGGHTIPRYLEWSDIESILTAIAEFSQJGIMHIEFVTLIEVLYRDI	620	
474	htIR1	PWRSAGRLCFLMISLIAAGSGLYCHFFETPRPACJHJROAHFALGETHESCLIVASFSOLITIERFSKMPFTHAMVONHAGCIKAW-ISSAAQHITCITIMENVWTPIPA-REYORFPHIMHIEOTE	722	
475	rtIR1	PWRSAGRLCFLMISLIAAGSGLYCHFFETPRPACJHJROAHFALGETHESCLIVASFSOLITIERFSKMPFTHAMVONHAGCIKAW-ISSAAQHITCITIMENVWTPIPA-REYORFPHIMHIEOTE	721	
476	htIR2	PIWRSAGCPCHMILLIIVAMVPVYGPENSTCICROALPFOHIDISOIAVRSFOVCAENKMASRFPRAVSMVRQCPYMSVAFIIVLKWIAVIGMIAIGLSATRTDDEDDKLTIVSQNP	722	
477	rtIR2	PWRSAGCPCHMILLIIVAMVPVYGPENSTCICROALPFOHIDISOIAVRSFOVCAENKMASRFPRAVSMVRQCPYMSVAFIIVLKWIAVIGMIAIGLSATRTDDEDDKLTIVSQNP	726	
478	htIR3	PLVQASGLPACFGVQICIGVCSVILLFPCOPSPARCIAQOPHSIPTGICSTILFIOAAETFESEPLSWADRISGCIKRGMANIWL-IAMIMEVAITWMLVAFPPPEV-TDWHMIPPAIVLHPORT	724	
479	rtIR3	PLVQASGLPACFGVQICIGVCSVILLFPCOPSPARCIAQOPHSIPTGICSTILFIOAAETFESEPLSWADRISGCIKRGMANIWL-IAMIMEVAITWMLVAFPPPEV-TDWHMIPPAIVLHPORT	729	
480	mGlur1	PWAKSSRRELCYIIIAAGELFAGVCPFTLIANKFHTISORLQILINGLSSAMQISALVTKNTRIANHILACSKKKICTKPKRPFMSAAOVLIISILISVOHTILAVILIIMEPPMEL-LSFESIK-EVYIIONT	748	
481	htIR1	TNSIGHTIAFLNGHLSISFACSLUGDLIPANVNEAKOVIESILLENVSWTAETHTASMDGQVILPAAVWAGLSSISSGFGGYELPKCYWILCRPDJNSTEHOASTODFTRCGST	841	
482	rtIR1	VNSGGRHATNIIISLSIFVCSYLGGLGEPENNEAKOVIESILLENVSWTAETHTASMDGQVILPAAVWAGLSSISSGFGGYELPKCYWILCRPDJNSTEHOASTODFTRCGST	840	
483	htIR2	NYRNSHLENTSLDILASWGSEFAMVGGELPIWVNEAKFHTISMEYFTSSISLOTFMSMSGVAVTIIDILLVTNMLIAISLISGFCGKCYMELFYPERETIPAYNSMIOGVTRRD	839	
484	rtIR2	NYRNSHLENTSLDILASWGSEFAMVGGELPIWVNEAKFHTISMEYFTSSISLOTFMSMSGVAVTIIDILLVTNMLIAISLISGFCGKCYMELFYPERETIPAYNSMIOGVTRRD	843	
485	htIR3	RSWMSGILHAINATIAFLCHLGTILVRSQPGRNPARGLHFAVLANCHITWSEVPLIANVQWILRPVQVCAHILCVIGELHAAFLHPCRYLLMROPENIPEHFLGGCPEDAGONDGN-TGVQKHE	852	
486	rtIR3	RSMWSGILHAINATIAFLCHLGTILVRSQPGRNPARGLHFAVLANCHITWSEVPLIANVQWILRPVQVCAHILCVIGELHAAFLHPCRYLLMROPENIPEHFLGGCPEDAGONDGN-TGVQKHE	858	
487	mGlur1	SN-LQVAPVQNGELIMSOYVIAKTRNVPANNEAKVIAETIWTQIILDAVPIYFGSN--YKIIHTCFVNSVSVTVAJCGMTEPPAMIIILAKPERN-----845	845	

FIG. 1B

